	Application No.	Applicant(s)
Notice of Allowability	10/607,400	DOWNES ET AL.
	Examiner	Art Unit
	Jonathan Johnson	1725
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>7-24-06</u> .		
2. The allowed claim(s) is/are <u>1-10,40-50</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal I	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Da	/ (PTO-413), ote 7,004,0419
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amend	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statem	ent of Reasons for Allowance
-	9.	

Notice of Allowability

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeffrey Duquette on 9-18-06.

The application has been amended as follows:

Cancel claim 39.

In claim 40, Line 1, change "39" to --1--.

In claim 1, line 19, replace "stencil." with --stencil; and

wherein the circuit board fabrication stage, when fabricating the circuit board having the set of circuit board pads, is configured to glue, heat, and press together layers of non-conductive and conductive material into a substantially rigid planar structure having signal planes, traces, and contacts to form a network of electrical pathways between multiple integrated circuit device packages and a support surafce to support the multiple integrated circuit device packages; and

wherein the circuit board pads are Surface Mount Technology (SMT) pads which are adapated to soldering to integrated circuit packages having SMT package contacts; and wherein

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the solder fusing stage, when activating the flux and melting the solder to form the set of substantially flat solder coatings which is fused to the set of circuit board pads, is configure to:

apply high heat to form as the set of substantially flat solder coatings, a set of solderable structures having (i) intermetallic bonds with the set of SMT pads, and (ii) external surfaces with high solder affinity in order to solder to the SMT package contacts of the integrated circuit packages during an SMT circuit board assembly process.--

In claim 41, line 21, replace "stencil." with --stencil; and

wherein the circuit board fabrication stage, when fabricating the circuit board having the set of circuit board pads, is configured to glue, heat, and press together layers of non-conductive and conductive material into a substantially rigid planar structure having signal planes, traces, and contacts to form a network of electrical pathways between multiple integrated circuit device packages and a support surafce to support the multiple integrated circuit device packages.--

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jonathan Johnson Primary Examiner Art Unit 1725